### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



## - I DERIA ENIKODI XI DODIKE KROK BOKO ERRIK ERKI EKKI DIKEROLIK BIKO EKKIR BIKO EKIK KODI EDDIKA KODI KROK DODI

(43) International Publication Date 13 October 2005 (13.10.2005)

PCT

# (10) International Publication Number WO 2005/096557 A1

(51) International Patent Classification7:

H04L 12/56

(21) International Application Number:

PCT/EP2004/003422

- (22) International Filing Date: 31 March 2004 (31.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

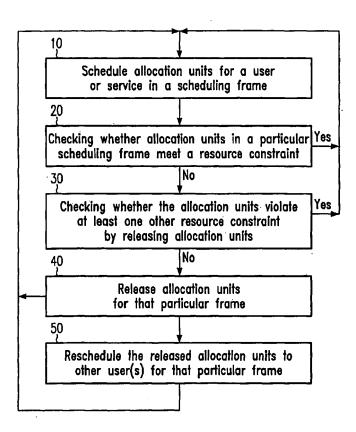
English

- (71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO. LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GOLITSCHEK EDLER VON ELBWART, Alexander [DE/DE]; Wilhelminenstr. 32, 64285 Darmstadt (DE). WENGERTER, Christian [DE/DE]; Bahnhofstr. 10d, 63924 Kleinheubach (DE).

- (74) Agent: KUHL, Dietmar; Grünecker, Kinkeldey, Stockmair & Schwanhäusser Anwaltssozietät, Maximillanstr. 58, 80538 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, 7W
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: A METHOD AND SCHEDULER FOR PERFORMING A SCHEDULING ALGORITHM WITH MINIMUM RESOURCE PARAMETER



(57) Abstract: A method for performing a scheduling algorithm with minimum resource scheduling in a mobile communication system, comprising the steps of scheduling (10) allocation units for a user or service in a scheduling frame, checking whether (20) the allocation units scheduled for a user or service in a particular scheduling frame meet a resource constraint, and releasing the allocation units (40) scheduled for a user or service for that particular scheduling frame for based on the result of the checking step for resource constraint. The invention also concerns a scheduler in a mobile communication system, a base station and mobile terminal comprising such a scheduler and a mobile communication system.

### WO 2005/096557 A1



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### Published:

with international search report